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Date of Deposit: December 1, 2003 Attorney Docket No.: C0989.70031US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Chan et al.

Serial No:

09/783,472

Confirmation No:

1318

Filed:

February 14, 2001

For:

METHODS AND APPARATUS FOR

CHARACTERIZATION OF SINGLE PÖLYMERS

Examiner:

Jan M. Ludlow

Art Unit:

1743

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL

Sir:

Transmitted herewith are the following document(s):

[\(\) Statement Filed Pursuant to the Duty of Disclosure Under 37 CFR §§ 1.56, 1.97 & 1.98;

[Form PTO-1449, Copies of references cited;

[] Check in the amount of \$180.00; and

[| Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 720-3500, Boston, Massachusetts.

A check in the amount of \$180.00 is enclosed. If any further amount is owed, please charge the amount to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted, Chan et al., Applicants

Bv:

Helen C. Lockhart, Ph.D, Reg. No. 39,428 WOLF, GREENFIELD & SACKS, P.C.

600 Atlantic Avenue

Boston, Massachusetts 02210-2211

Telephone: (617)720-3500 Representative for Applicants

Docket No: C0989.70031US00

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STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office Action, but before the mailing date of either a final action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

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Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application (Copies enclosed):

Docket Number	Serial Number	Filing Date	Inventor(s)
C0989.70011US00	09/373.822	08/13/99	Tegenfeldt et: al.
C0989.70014US00	09/373,7002	08/13/99	Chan
C0989.70016US00	09/852,968	05/10/01	Chan
C0989.70017US00	09/875,779	06/6/01	Chan et al.
C0989.70020US00	10/165,914	06/10/02	Shia et al.
C0989.70021US00	10/166,567	06/10/02	Wong
C0989.70028US00	10/421,644	04/23/03	Gilmanshin et al.
C0989.70030US00	09/636,793	08/11/00	Chan et al.
C0989.70032US00	09/783,930	02/15/01	Gilmanshin et al.
C0989.70035US00	10/246,779	09/18/02	Chan et al.
C0989.70036US00	09/928.668	08/13/01	Chan
C0989.70049US00	10/448,264	05/28/03	Chan

Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;

3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted, Chan et al., *Applicant*

Rv

Helen C. Lockhart, Ph.D., Reg. No. 39,248

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Docket No. C0989.70031US00

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FORM PTO-1449/A and B (Mocried) INFORMATION DISCLOSURE STATEMENT BY APPLICANT

of

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Sheet

APPLICATION NO.: 09/783,472	ATTY. DOCKET NO.: C0989.70031US00

FILING DATE: February 14, 2001 CONFIRMATION NO.: 1318

APPLICANT: Chan et al.

GROUP ART UNIT: 1743 EXAMINER: Jan M. Ludlow

U.S. PATENT DOCUMENTS

Examiner's	Cite	U.S. Patent Document		Name of Patentee or Applicant of Cited	Date of Publication or of issue	
Initials No.		Number Kind Code		Document	of Cited Document MM-DD-YYYY	
	*	60/149,020		Chan et al.	08/13/99	
	*	09/374,902		Gilmanshin et al	08/13/99	
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	A2	6,355,420	BI	Chan	03/12/02	
	A3	6,403,311	ВІ	Chan	06/11/02	

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Examiner's	Cite	Foreign Patent Document		nt	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
Initials	No.	Office/ Country	Number	Kind Code	Cited [Cited Document MM-DD-YYYY	(Y/N)
•	*	PCT	WO 00/09757			02/24/00	
	*	PCT	WO 98/35012		·	08/13/98	
	*	PCT	WO 97/06278			02/20/97	
	*	PCT	WO 93/22463			11/93	
	*	EPO	EP 0391674			10/10/90	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's	Cite	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item	Translation
Initials	No	(book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s),	(Y/N)
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	*	Austin et al., 1997, "Stretch Genes", Physics Today 50:32-38	
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	*	Bakajin et al., 1998, "Electrohydrodynamic stretching of DNA in confined enviornments", Phys. Rev. Lett: 80:2737-2740	The state of

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APPLICATION NO.: 09/783,472 ATTY. DOCKET NO.: C0989.70031US00 FILING DATE: February 14, 2001 **CONFIRMATION NO.: 1318** APPLICANT: Chan et al. EXAMINER: Jan M. Ludlow GROUP ART UNIT: 1743

Sheet 2 of 3

		OTHER ART — NON PATENT LITERATURE DOCUMENTS	
Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	*	Bensimon et al., 1995 "Stretching DNA with a receding meniscus: experiments and models", Phys. Rev. Lett 74:4754-4757	
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APPLICATION NO.:	09/783,472	ATTY. DOCKET NO.: C0989.70031US00
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GROUP ART UNIT	1743	EXAMINER: Jan M. Ludlow

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's	Cite	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item	Translation	
Initials	No	(book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s),	(Y/N)	
· 		publisher, city and/or country where published.		
	*	Smith et al., 1992, "Direct mechanical measurements of the elasticity of single DNA molecules by using magnetic beads", Science 258:1122-1126		
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	CI	Office Action 01/14/2003 Paper #10 Appl. 09/636,793 Filed 08/11/2000		

EXAMINER	DATE CONSIDERED

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. <u>09/636,793</u>, filed <u>August 11, 2000</u>, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).